

PATENT ABSTRACTS

12/5/1 (Item 1 from file: 347) [Links](#)

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07754780 **Image available**

DOCUMENT GROUP LABEL CREATION DEVICE AND METHOD, AND RECORDING MEDIUM

Pub. No.: 2003-248686 [JP 2003248686 A]

Published: September 05, 2003 (20030905)

Inventor: SATO NAKO

Applicant: RICOH CO LTD

Application No.: 2002-045516 [JP 200245516]

Filed: February 22, 2002 (20020222)

International Class: G06F-017/30; G06F-017/21

ABSTRACT

PROBLEM TO BE SOLVED: To provide a document group label creation device and a method linguistically analyzing language attributes of document groups and automatically providing a label showing its contents without individually reading the contents of the document groups and to provide a recording medium.

SOLUTION: This document group label creation device 1 allows a language analysis part 3 to analyze the language attributes of a plurality of text document groups comprising a plurality of text documents collected and stored in a text document group storage part 2, measures the analyzed language attribute information, selects language phenomena characteristic to the text document group based on the measured result, collates the selected characteristic language phenomena with a label creation rule of a label creation rule dictionary storage part 6 storing the label creation rule, and creates the label showing the contents of the text document group for the text document group by a label creation part 4. This constitution thus automatically provides the label showing the content by an expression easily understood by the user without individually reading the contents of the large amount of document groups.

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0014363426 & & *Drawing available*

WPI Acc no: 2004-552120/200453

Related WPI Acc No: 2004-552119; 2004-552140; 2004-560868; 2005-151504; 2008-C99623

XRPX Acc No: N2004-436791

Electronic files management system for computer system, organizes files based on metadata related to files of several volumes, which includes automatically generated metadata and user defined metadata

Patent Assignee: KIESSIG R (KIES-I); MATHON J D (MATH-I); YOST D A (YOST-I); MATHON SYSTEMS INC (MATH-N)

Inventor: KIESSIG R; MATHON J D; YOST D A

Patent Family (2 patents, 1 & countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20040133545	A1	20040708	US 2002434418	P	20021219	200453	B
			US 2003632091	A	20030801		
US 7386530	B2	20080610	US 2003632091	A	20030801	200840	E

Priority Applications (no., kind, date): US 2002434418 P 20021219; US 2003632091 A 20030801

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20040133545	A1	EN	23	5	Related to Provisional	US 2002434418

Alerting Abstract US A1

NOVELTY - A volume manager (112) manages electronic files and metadata related to the files of several volumes. The files are organized based on the metadata including automatically generated metadata and user defined metadata.

USE - Electronic files management system for computer system, peer-to-peer system, personal digital assistant (PDA), MP3 player, cellular phone, electronic gaming system, for use in data recovery after disaster.

ADVANTAGE - Facilitates categorization of information, and enables to perform event-driven actions for sharing and accessing of files, and backup and restoration operations of the electronic file. Enables to generate historical view showing modifications made on the file, and restoring of files and folder prior to the modification.

DESCRIPTION OF DRAWINGS - DESCRIPTION OF DRAWING - The figure shows the block diagram of the server system with file management system.

110 server

112,121 volume managers

120 terminal device

130 wireless communication link

Original Publication Data by AuthorityArgentinaPublication No. Original Abstracts:An automated method for conditionally propagating metadata instances among documents includes defining groups of metadata instances and includes assigning different propagation coefficients to each group. Each propagation coefficient assigned to a particular... .. An automated method for conditionally propagating metadata instances among documents includes defining groups of metadata instances and includes

assigning different propagation coefficients to each group. Each propagation coefficient assigned to a particular group is... Claims: What is claimed is: 1. An automated method of conditionally propagating metadata among documents comprising: defining a plurality of groups of metadata instances; assigning a plurality of propagation coefficients to each said group, where each said propagation coefficient assigned...

12/5/5 (Item 3 from file: 350) [Links](#)

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0013863280 & *Drawing available*

WPI Acc no: 2004-041844/200404

XRPX Acc No: N2004-033840

Document concept hierarchy discovering method for documents, involves clustering concepts to obtain concept hierarchy to label concepts and creating interface for generated hierarchy

Patent Assignee: VERITY INC (VERI-N)

Inventor: CHUNG C; CHUNG C Y; LIU J; LUK A; MAO J; TAANK S; VUTUKURU V

Patent Family (8 patents, 99 & countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20030217335	A1	20031120	US 2002150795	A	20020517	200404	B
WO 2003098396	A2	20031127	WO 2003US15563	A	20030515	200404	E
AU 2003241489	A1	20031202	AU 2003241489	A	20030515	200442	E
EP 1508105	A2	20050223	EP 2003731225	A	20030515	200515	E
			WO 2003US15563	A	20030515		
JP 2005526317	W	20050902	WO 2003US15563	A	20030515	200559	E
			JP 2004505846	A	20030515		
CN 1669029	A	20050914	CN 2003816761	A	20030515	200607	E
AU 2003241489	A8	20051027	AU 2003241489	A	20030515	200624	E
US 7085771	B2	20060801	US 2002150795	A	20020517	200651	E

Priority Applications (no., kind, date): US 2002150795 A 20020517

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20030217335	A1	EN	26	11		
WO 2003098396	A2	EN				
National Designated States,Original	AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW					
Regional Designated States,Original	AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW					
AU 2003241489	A1	EN			Based on OPI patent	WO 2003098396
EP 1508105	A2	EN			PCT Application	WO 2003US15563
					Based on OPI patent	WO 2003098396
Regional Designated States,Original	AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR					
JP 2005526317	W	JA	36		PCT Application	WO 2003US15563
					Based on OPI patent	WO 2003098396
AU 2003241489	A8	EN			Based on OPI patent	WO 2003098396

Alerting Abstract US A1

NOVELTY - The method involves extracting signatures from a corpus of documents and identifying similarities between the signatures. The related signatures are clustered hierarchically to generate concepts,

where the concepts are clustered hierarchically to obtain concept hierarchy. The concepts that are organized in the concept hierarchy are labeled. An interface is created for the generated concept hierarchy.

DESCRIPTION - An INDEPENDENT CLAIM is also included for a system for discovering a hierarchy of concepts from a corpus of documents.

USE - Used for discovering a hierarchy of concepts from a corpus of documents.

ADVANTAGE - The method automatically discovers a concept hierarchy that organizes concepts into multi levels of abstraction, from a corpus of documents. The signatures are frequency distributed to alleviate any inaccuracy in the similarity measure resulting from data sparsity and polysemy problems. The user-friendly interface allows user to efficiently retrieve relevant documents pertaining to a concept in the concept hierarchy and facilitates users in browsing and navigating information content of a corpus of documents.

DESCRIPTION OF DRAWINGS - The drawing shows a flow chart of a method for automatically identifying concepts and generating a concept hierarchy.

Original Publication Data by AuthorityArgentinaPublication No. Original Abstracts:The invention is a method, system and computer program for automatically discovering concepts from a corpus of documents and automatically generating a labeled concept hierarchy. The method involves extraction of signatures from the corpus of documents. The similarity between signatures is computed... ... method, system and computer program for automatically discovering concepts from a corpus of documents and automatically generating a labeled concept hierarchy. The method involves extraction of signatures from the corpus of documents. The similarity between signatures is computed using a statistical measure. The... ... method, system and computer program for automatically discovering concepts from a corpus of documents and automatically generating a labeled concept hierarchy. The method involves extraction of signatures from the corpus of documents. The similarity between signatures is computed using a statistical measure. The frequency distribution of signatures is... ... clustered to generate concepts and concepts are arranged in a concept hierarchy. The concept hierarchy automatically generates query for a particular concept and retrieves relevant documents associated with the concept. method, system and computer program for automatically discovering concepts from a corpus of documents and automatically generating a labeled concept hierarchy. The method involves extraction of signatures from the corpus of documents. The similarity between signatures is computed using a statistical measure. The frequency distribution of signatures is refined to alleviate any inaccuracy...Claims:claimed is:1. A method for automatically discovering a hierarchy of concepts from a corpus of documents, the concept hierarchy organizes concepts into multiple levels of abstraction, the method comprising:a. extracting signatures from the corpus...

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0015387750 & & *Drawing available*

WPI Acc no: 2005-732329/200575

XRPX Acc No: N2005-602814

Site view e.g. site map, displaying method, involves providing site map and table of contents forms in respective data fields for receiving data from agent dynamically in response to request from user for displaying site view

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)

Inventor: SMITH M D

Patent Family (1 patents, 1 & countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 6957383	B1	20051018	US 1999472677	A	19991227	200575	B

Priority Applications (no., kind, date): US 1999472677 A 19991227

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
US 6957383	B1	EN	18	7	

Alerting Abstract US B1

NOVELTY - The method involves providing a tabular layout structure for a site map (102) in a site map form. A column layout structure for table of contents is provided in a table of contents form. The site map form and the table of contents form are provided in respective data fields for receiving data from a agent dynamically in response to a request from a user for displaying a site view e.g. site map and table of contents.

DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- a. a system for displaying from a web site a site view selectively including a site map and a table of contents
- b. a program storage device readable by a machine tangibly embodying a program of instructions for performing a site view e.g. site map, displaying method.

USE - Used for displaying a site view e.g. site map and table of content, from a website e.g. lotus domino web site.

ADVANTAGE - The method effectively provides an improved site map and table of contents for a web page, and dynamically updates the web page site map and the table of contents to link directly with a volatile content. The method efficiently enables browser linking of site content to the site map and table of contents.

DESCRIPTION OF DRAWINGS - The drawing shows a high level system diagram of a system for displaying a site view such as a site map and table of contents.

101 Lotus domino web site

102 Site map

104 Table of contents

106 Content database

16/5/8 (Item 7 from file: 350) [Links](#)

Fulltext available through: [Order File History](#)

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0012798233 & *Drawing available*

WPI Acc no: 2002-654803/200270

XRPX Acc No: N2002-517336

Interactive classification and analysis method for textual data in helpdesk service, involves displaying table including name, cohesion score and distinctness score for each cluster of documents

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)

Inventor: KREULEN J T; MODHA D S; SPANGLER W S; STRONG H R

Patent Family (1 patents, 1 & countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 6424971	B1	20020723	US 1999429650	A	19991029	200270	B

Priority Applications (no., kind, date): US 1999429650 A 19991029

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
US 6424971	B1	EN	15	8	

Alerting Abstract US B1

NOVELTY - The dictionary including a subset of words contained in a document set and count of frequency occurrence of each word in the document set are generated. The set of documents are partitioned into multiple clusters for which the name and centroid in the dictionary space are generated. The cohesion and distinctness scores are generated for each cluster. A table including the name, cohesion score and distinctness score for each cluster is displayed.

DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

- c. Interactive classification and analysis system; and
- d. Computer program product for interactive classification and analysis.

USE - For interactive classifying and analyzing textual data in helpdesk service.

ADVANTAGE - Clustering of documents enables a user to determine the content of documents in the cluster without having to look at all of the documents. This saves the user's considerable time and ultimately reduces expenses. Enables identifying candidate helpdesk problem categories that are most amendable to automated solutions and hence improves the efficiency of the helpdesk operation.

DESCRIPTION OF DRAWINGS - The figure shows a flow diagram of the interactive classification and analysis process.

Alerting Abstract ... and ultimately reduces expenses. Enables identifying candidate helpdesk problem categories that are most amendable to automated solutions and hence improves the efficiency of the helpdesk operation... Original Publication Data by AuthorityArgentinaPublication No. ...Original Abstracts:data. It is particularly useful in identification of helpdesk inquiry and problem categories amenable to automated fulfillment or solution. A dictionary is generated based on a frequency of occurrence of words... ..a centroid, a cohesion score, and a distinctness score are generated for each cluster and displayed in a table. The documents contained in the clusters sorted based on their similarity to other documents in the cluster... ..by calculating the distance of the document to the centroid of the cluster and

the documents may be sorted in order of ascending or descending distance of the document to the centroid of the... ..Claims: set of documents into a plurality of clusters, each cluster containing at least one document; generating a name for each cluster; generating a centroid of each cluster in the space of the dictionary; generating a cohesion score for each cluster; generating a distinctness score for each cluster; and displaying a table including the name of each cluster and the cohesion score and distinctness score for each cluster.

16/3,K/3 (Item 2 from file: 350) [Links](#)

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0015154305 & *Drawing available*

WPI Acc no: 2005-503885/200551

Related WPI Acc No: 2000-171500; 2005-733455; 2005-733456

XRPX Acc No: N2005-411019

Digital camera image category managing method, involves generating image category list from tag in image, storing list on storage media and synchronizing list with image on storage media

Patent Assignee: IPAC ACQUISITION SUBSIDIARY I LLC (IPAC-N)

Inventor: ANDERSON E C; CHAMBERS P S; PAVLEY J

Patent Family (1 patents, 1 & countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 6914625	B1	20050705	US 1998121760	A	19980723	200551	B
			US 1999430235	A	19991029		

Priority Applications (no., kind, date): US 1998121760 A 19980723; US 1999430235 A 19991029

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 6914625	B1	EN	19	11	C-I-P of application	US 1998121760

Original Titles:Method and apparatus for managing image categories in a digital camera to enhance performance of a high-capacity image storage media Alerting Abstract ...media has been determined that the image was deleted, added or recategorized. The list is automatically synchronized when the storage media is under control of a digital imaging device. Original Publication Data by

AuthorityArgentinaPublication No. ...Original Abstracts:method aspect of the present invention includes, storing images on the storage media, where the images include tags for categorizing the images. A category list is generated from the tags in the images and the category list is stored on the storage media. A category within the category list is designated as a default category. The method further includes accessing the image category list in order to display the images, wherein only the images belonging to the default category are displayed, thereby speeding access to, and display of, the... ...Claims:media in a digital imaging device, comprising:a) storing images on the storage media, the images including tags for categorizing the images;b) generating an image category list from the tags in the images and storing the category list on the storage media, the image category list including a default category;c) accessing the image category list in order to display the images, wherein only the images belonging to the default category are displayed, thereby speeding access to, and display of, the images; andd) synchronizing the image category list with the images on the storage media when it has been determined that at least one image was deleted, added, or recategorized, wherein the synchronization includes,i) automatically synchronizing the image category list when the storage media is under control of the digital imaging device, andii) performing a subsequent synchronization of the image category...

FULL-TEXT PATENTS

12/3K/5 (Item 4 from file: 349) [Links](#)

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01181192

USER-DEFINED TEMPLATES FOR AUTOMATIC IMAGE NAMING

MODELES DEFINIS PAR UN UTILISATEUR POUR NOMMER AUTOMATIQUEMENT DES IMAGES

Patent Applicant/Patent Assignee:

e. FLASHPOINT TECHNOLOGY INC; 20 Depot Street, Suite 2A, Peterborough, NH 03458

US; US(Residence); US(Nationality)

(For all designated states except: US)

f. MORRIS Robert P; 6021 Fordland Drive, Raleigh, NC 27606

US; US(Residence); US(Nationality)

(Designated only for: US)

g. SCARDINO Patricia; 3233 Summer Oaks Drive, Apex, NC 27539

US; US(Residence); US(Nationality)

(Designated only for: US)

Patent Applicant/Inventor:

h. MORRIS Robert P

6021 Fordland Drive, Raleigh, NC 27606; US; US(Residence); US(Nationality); (Designated only for: US)

i. SCARDINO Patricia

3233 Summer Oaks Drive, Apex, NC 27539; US; US(Residence); US(Nationality); (Designated only for: US)

Legal Representative:

j. SULLIVAN Stephen G(et al)(agent)

Sawyer Law Group LLP, P.O. Box 51418, Palo Alto, CA 94303; US;

	Country	Number	Kind	Date
Patent	WO	2004102857	A2-A3	20041125
Application	WO	2004US14863		20040512
Priorities	US	2003436561		20030512

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG;

BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU;

CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI;

GB; GD; GE; GH; GM; HR; HU; ID; IL; IN;

IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR;

LS; LT; LU; LV; MA; MD; MG; MK; MN; MW;
MX; MZ; NA; NI; NO; NZ; OM; PG; PH; PL;
PT; RO; RU; SC; SD; SE; SG; SK; SL; SY;
TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ;
VC; VN; YU; ZA; ZM; ZW;

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;
FI; FR; GB; GR; HU; IE; IT; LU; MC; NL;
PL; PT; RO; SE; SI; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;
ML; MR; NE; SN; TD; TG;

[AP] BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL;
SZ; TZ; UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English
Filing Language: English
Fulltext word count: 3374

Detailed Description:

...OF THE DRAWINGS

Figure 1 is a block diagram illustrating an online photosharing system that automatically stores and organizes digital files in accordance with a preferred embodiment of the present invention.

Figure 2 is a flow diagram of the process for automatically generating names for the image files uploaded to the photosharing site in accordance with a preferred embodiment...

12/3K/6 (Item 5 from file: 349) [Links](#)

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01050143

KNOWLEDGE MANAGEMENT USING TEXT CLASSIFICATION

GESTION DES CONNAISSANCES PAR CLASSIFICATION DE TEXTES

Patent Applicant/Patent Assignee:

k. THE BOEING COMPANY; P.O. Box 3707, Mail Stop 13-08, Seattle, WA 98124-2207
US; US(Residence); US(Nationality)

Legal Representative:

l. GALBRAITH Ann K(agent)

The Boeing Company, P.O. Box 3707, M/S 13-08, Seattle, WA 98124-2207; US;

	Country	Number	Kind	Date
Patent	WO	200379234	A2-A3	20030925
Application	WO	2003US7349		20030310
Priorities	US	200295673		20020311

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;
FI; FR; GB; GR; HU; IE; IT; LU; MC; NL;
PT; RO; SE; SI; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;
ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;
UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English

Filing Language: English

Fulltext word count: 9338

Detailed Description:

...At the block 42, categories that have a probability above a predetermined threshold value are automatically selected as knowledge categories for the document.

At a block 44, the knowledge categories selected, either automatically or by the user, are automatically assigned as metadata for the document. Assigning the knowledge categories as

19/3K/7 (Item 7 from file: 348) [Links](#)

Fulltext available through: [Order File History](#)

EUROPEAN PATENTS

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00688620

User-definable interactive system

Benutzerdefinierbares interaktives System

Système interactif et défini par l'utilisateur

Patent Assignee:

m. CANON KABUSHIKI KAISHA; (542361)

30-2, 3-chome, Shimomaruko, Ohta-ku; Tokyo; (JP)

(Proprietor designated states: all)

Inventor:

n. Palmer, Douglas L.

1 Calle Cabrillo; Foothill Ranch, California 92610; (US)

o. Ray, Richard Douglas

28143 Via Fierro; Laguna Niguel, California 92677; (US)

Legal Representative:

p. Beresford, Keith Denis Lewis et al (28273)

BERESFORD & Co. High Holborn 2-5 Warwick Court; London WC1R 5DJ; (GB)

	Country	Number	Kind	Date	
Patent	EP	657810	A1	19950614	(Basic)
	EP	657810	B1	20010228	
Application	EP	94309029		19941205	
Priorities	US	161811		19931206	

Designated States:

DE; FR; GB; IT;

International Patent Class (V7): G06F-009/46; G06F-009/46Abstract Word Count: 213

NOTE: 4

NOTE: Figure number on first page: 4

Type	Pub. Date	Kind	Text
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Publication: English

Procedural: English

Application: English

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB95	1389
SPEC A	(English)	EPAB95	7521
CLAIMS B	(English)	200109	2186
CLAIMS B	(German)	200109	2025
CLAIMS B	(French)	200109	2359
SPEC B	(English)	200109	8005
Total Word Count (Document A) 8912			
Total Word Count (Document B) 14575			
Total Word Count (All Documents) 23487			

Claims: ...of displaying comprises displaying using a file system presenter/editor whereby action items may be created, edited, opened, named, copied, or deleted displayed action items.

33. A method for visually representing content and structure... ...the file system an interactive system application containing at least one event-actuable action item;

displaying, in a hierarchical arrangement, a graphical representation of the at least one event-actuable action item; and

displaying an event identifier...

19/3K/22 (Item 13 from file: 349) [Links](#)

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00512814

DIRECTING IMAGE CAPTURE SEQUENCES IN A DIGITAL IMAGING DEVICE USING
SCRIPTS

ORIENTATION DE SEQUENCES DE CAPTURE D'IMAGE DANS UN DISPOSITIF D'IMAGERIE
NUMERIQUE, AU MOYEN DE SCRIPTS

Patent Applicant/Patent Assignee:

q. FLASHPOINT TECHNOLOGY INC;

;;

	Country	Number	Kind	Date
Patent	WO	9944166	A1	19990902
Application	WO	99US1973		19990129
Priorities	US	9832659		19980227

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

Main International Patent Classes (Version 7):

IPC	Level
G06F-019/00	Main

Publication Language: English

Filing Language:

Fulltext word count: 9342

Detailed Description:

...has three different scripts for capturing images of different types of properties. The agent may name or create categories for the directed image capture sequences called "commercial", "industrial", and "residential", for instance. Selecting the residential category, for example, will cause a list of directed image captures to be displayed that are 1 0 designed to capture pictures of different types of residential properties, such...

NPL

[bad date, but fyi]

11/5/1 (Item 1 from file: 2) [Links](#)

Fulltext available through: [STIC Full Text Retrieval Options](#)

INSPEC

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10600132

Title: Semi-automatic photo annotation strategies using event based clustering and clothing based person recognition

Author Bongwon Suh; Bederson, B.B.

Author Affiliation: Univ. of Maryland, College Park, USA

Journal: Interacting with Computers vol.19, no.4 p. 524-44

Publisher: Elsevier Science Ltd. ,

Publication Date: 2007 Country of Publication: UK

CODEN: INTCEE ISSN: 0953-5438

Material Identity Number: ES42-2007-001

Item Identifier (DOI): [10.1016/j.intcom.2007.02.002](#)

Document Number: S0953-5438(07)00015-X

Language: English Document Type: Journal Paper (JP)

Treatment: Practical (P)

Abstract: Managing a large number of digital photos is a challenging task for casual users. Personal photos often don't have rich metadata, or additional information associated with them. However, available metadata can play a crucial role in managing photos. Labeling the semantic content of photos (i.e., annotating them), can increase the amount of metadata and facilitate efficient management. However, manual annotation is tedious and labor intensive while automatic metadata extraction techniques often generate inaccurate and irrelevant results. This paper describes a semi-automatic annotation strategy that takes advantage of human and computer strengths. The semi-automatic approach enables users to efficiently update automatically obtained metadata interactively and incrementally. Even though automatically identified metadata are compromised with inaccurate recognition errors, the process of correcting inaccurate information can be faster and easier than manually adding new metadata from scratch. In this paper, we introduce two photo clustering algorithms for generating meaningful photo groups: (1) Hierarchical event clustering; and (2) Clothing based person recognition, which assumes that people who wear similar clothing and appear in photos taken in one day are very likely to be the same person. To explore our semi-automatic strategies, we designed and implemented a prototype called SAPHARI (Semi-Automatic PHoto Annotation and Recognition Interface). The prototype provides an annotation framework which focuses on making bulk annotations on automatically identified photo groups. The prototype automatically creates photo clusters based on events, people, and file metadata so that users can easily bulk annotation photos. We performed a series of user studies to investigate the effectiveness and usability of the semi-automatic annotation techniques when applied to personal photo collections. The results show that users were able to make annotations significantly faster with event clustering using SAPHARI. We also found that users clearly preferred the semi-automatic approaches. [All rights reserved Elsevier]. (42 Refs)

Subfile: B C

Descriptors: digital photography; image recognition; meta data; pattern clustering

Identifiers: semi-automatic photo annotation strategies; event based clustering; clothing based person recognition; digital photos; metadata; photo clustering algorithm; hierarchical event clustering; bulk annotations

Class Codes: B6135E (Image recognition); B7230G (Image sensors); C5260B (Computer vision and

image processing techniques)

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Automatic taxonomy generation: Issues and possibilities
Fuzzy sets and systems : Istanbul, 30 June - 2 July 2003

KRISHNAPURAM Raghu; KUMMAMURU Krishna
BILGIC Taner, ed; DE BAETS Bernard, ed; KAYNAK Okyay, ed
IBM India Research Lab, Block I, IIT, Hauz Khas, New Delhi 110016, India
IFSA 2003 : international fuzzy systems association world congress, 10 (Istanbul TUR) 2003-06-30

Journal: Lecture notes in computer science,
2003, 2715 52-63

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Country of Publication: Germany

Language: English

Automatic taxonomy generation deals with organizing text documents in terms of an unknown labeled hierarchy. The main issues here are (i) how to identify documents that have similar content, (ii) how to discover the hierarchical structure of the topics and subtopics, and (iii) how to find appropriate labels for each of the topics and subtopics. In this paper, we review several approaches to automatic taxonomy generation to provide an insight into the issues involved. We also describe how fuzzy hierarchies can overcome some of the problems associated with traditional crisp taxonomies.

English Descriptors: Text; Taxonomy; Automatic generation;
Hierarchized structure; Label; Fuzzy logic

French Descriptors: Texte; Systematique; Generation automatique; Structure
hierarchisee; Etiquette; Logique floue

Classification Codes: 001D02A04; 001D02C02

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[your assignee]

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INSPEC

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09116666 INSPEC Abstract Number: B2004-11-6135-084, C2004-11-5260B-101

Title: PhotoTOC: automatic clustering for browsing personal photographs

Author Platt, J.C.; Czerwinski, M.; Field, B.A.

Author Affiliation: Microsoft Res., Redmond, WA, USA

Conference Title: ICICS-PCM 2003. Proceedings of the 2003 Joint Conference of the Fourth International Conference on Information, Communications and Signal Processing and Fourth Pacific-Rim Conference on Multimedia (IEEE Cat. No.03EX758) Part Vol.1 p. 6-10 Vol.1

Publisher: IEEE, Piscataway, NJ, USA

Publication Date: 2003 Country of Publication: USA xlvii+1986 pp.

ISBN: 0 7803 8185 8 Material Identity Number: XX-2003-03214

U.S. Copyright Clearance Center Code: 0-7803-8185-8/03/\$17.00

Conference Title: ICICS-PCM 2003. Proceedings of the 2003 Joint Conference of the Fourth International Conference on Information, Communications and Signal Processing and Fourth Pacific-Rim Conference on Multimedia

Conference Sponsor: Microsoft Res. Asia; Singapore Exhibition and Convention Bureau

Conference Date: 15-18 Dec. 2003 Conference Location: Singapore

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P); Experimental (X)

Abstract: This paper presents photo table of contents (PhotoTOC), a system that helps users find digital photographs in their own collection of photographs. PhotoTOC is a browsing user interface that uses an overview+detail design. The detail view is a temporally ordered list of all of the user's photographs. The overview of the user's collection is automatically generated by an image clustering algorithm, which clusters on the creation time and the color of the photographs. PhotoTOC was tested on users' own photographs against three other browsers. Searching for images with PhotoTOC was subjectively rated easier than all of the other browsers. This result shows that automatic organization of personal photographs facilitates efficient and satisfying search. (13 Refs)

Subfile: B C

Descriptors: image processing; pattern clustering; user interfaces; visual databases

Identifiers: automatic clustering; personal photographs; photo table of contents; user interface browsers; image clustering algorithm

Class Codes: B6135 (Optical, image and video signal processing); C5260B (Computer vision and image processing techniques); C6180 (User interfaces)

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See earlier version of this product (from 2002):

<http://ftp.research.microsoft.com/pub/tr/tr-2002-17.pdf>

16/5/2 (Item 2 from file: 2) [Links](#)

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INSPEC

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07458292 INSPEC Abstract Number: C2000-02-6130D-020

Title: An automated document filing system

Author Fan, X.; Liu, Q.; Ng, P.

Author Affiliation: Teleran Technol., East Hanover, NJ, USA

Journal: Journal of Systems Integration vol.9, no.3 p. 223-62

Publisher: Kluwer Academic Publishers ,

Publication Date: Oct. 1999 Country of Publication: Netherlands

CODEN: JSINE4 ISSN: 0925-4676

SICI: 0925-4676(199910)9:3L:223:ADFS;1-O

Material Identity Number: O661-1999-004

U.S. Copyright Clearance Center Code: 0925-4676/99/\$9.50

Language: English Document Type: Journal Paper (JP)

Treatment: Practical (P)

Abstract: TEXPROS (Text Processing System) is an automatic document processing system which supports text-based information representation and manipulation, conveying meanings from stored information within office document texts. A dual modeling approach is employed to describe office documents and support document search and retrieval. The frame templates for representing document classes are organized to form a document type hierarchy. Based on its document type, the synopsis of a document is extracted to form its corresponding frame instance. According to the user predefined criteria, these frame instances are stored in different folders, which are organized as a folder organization (i.e., repository of frame instances associated with their documents). The concept of linking folders establishes filing paths for automatically filing documents in the folder organization. By integrating document type hierarchy and folder organization, the dual modeling approach provides efficient frame instance access by limiting the searches to those frame instances of a document type within those folders which appear to be the most similar to the corresponding queries. This paper presents an agent-based document filing system using folder organization. A storage architecture is presented to incorporate the document type hierarchy, folder organization and original document storage into a three-level storage system. This folder organization supports effective filing strategy and allows rapid frame instance searches by confining the search to the actual predicate-driven retrieval method. (65 Refs)

Subfile: C

Descriptors: information retrieval; office automation; software agents; text analysis

Identifiers: automated document filing system; TEXPROS; text processing system; automatic document processing system; text-based information representation ; text-based information manipulation; stored information; office document texts; dual modeling approach; document search; document retrieval; frame templates; document type hierarchy; document synopsis; user predefined criteria; folders; filing paths; agent-based document filing system; queries; storage architecture; three-level storage system; predicate-driven retrieval method

Class Codes: C6130D (Document processing techniques); C7240 (Information analysis and indexing); C7250 (Information storage and retrieval); C7104 (Office automation); C6170 (Expert systems and other AI software and techniques)

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21/5/1 (Item 1 from file: 2) Links

INSPEC

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08328550 INSPEC Abstract Number: C2002-08-7240-026

Title: Self-organising maps for tree view based hierarchical document clustering

Author Freeman, R.; Hujun Yin; Allinson, N.M.

Author Affiliation: Dept. of Electr. Eng. & Electron., Univ. of Manchester Inst. of Sci. & Technol., UK

Conference Title: Proceedings of the 2002 International Joint Conference on Neural Networks. IJCNN'02

(Cat. No.02CH37290) Part vol.2 p. 1906-11 vol.2

Publisher: IEEE, Piscataway, NJ, USA

Publication Date: 2002 Country of Publication: USA 3 vol.xlviii+2934 pp.

ISBN: 0 7803 7278 6 Material Identity Number: XX-2002-01559

U.S. Copyright Clearance Center Code: 0-7803-7278-6/02/\$10.00

Conference Title: Proceedings of 2002 International Joint Conference on Neural Networks (IJCNN)

Conference Sponsor: IEEE; IEEE Neural Networks Soc. (NNS); Int. Neural Network Soc

Conference Date: 12-17 May 2002 Conference Location: Honolulu, HI, USA

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P)

Abstract: In this paper, we investigate the use of self-organising maps (SOMs) for document clustering. Previous methods using SOMs to cluster documents have used 2D maps. This paper presents a hierarchical and growing method using a series of 1D maps instead. Using this type of SOM is an efficient method for clustering documents and browsing them in a dynamically generated tree of topics. These topics are automatically discovered for each cluster, based on the set of documents in a particular cluster. We demonstrate the efficiency of the method using different sets of real-world Web documents. (24 Refs)

Subfile: C

Descriptors: classification; document handling; information resources; pattern clustering; self-organising feature maps; tree data structures

Identifiers: self-organising maps; tree view-based hierarchical document clustering; growing method; 1D map series; document browsing; dynamically generated topic tree; automatic topic discovery; World Wide Web documents

Class Codes: C7240 (Information analysis and indexing); C6130D (Document processing techniques);

C5290 (Neural computing techniques); C6120 (File organisation); C7210N (Information networks)

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07137172 INSPEC Abstract Number: C1999-02-6130D-011

Title: Document processing utilities to support document utilization cycle based on natural language processing technology

Author Nakao, Y.; Ogawa, T.

Journal: Fujitsu vol.49, no.6 p. 434-8

Publisher: Fujitsu ,

Publication Date: 1998 Country of Publication: Japan

CODEN: FUJTAR ISSN: 0016-2515

SICI: 0016-2515(1998)49:6L:434:DPUS;1-O

Material Identity Number: D926-1998-007

Language: Japanese Document Type: Journal Paper (JP)

Treatment: Practical (P)

Abstract: The paper introduces a new document list viewer and browser, which are convenient tools that apply natural language processing to support document utilization. The document utilization process involves a cycle in which required documents are first retrieved, then analyzed by content. The user can then formulate ideas and create another document. Both tools help the user perform essential steps in this cycle. The document list viewer provides a well organized list of documents by clustering documents based on content similarities, and by attaching precise summaries generated automatically, the user can quickly find a required document even from a long list of retrieved documents. With the automatic text summarization function, the document browser allows users to skim through a long document on a computer display, then interactively creates customized summaries. The paper describes the features of these new tools and discusses the requirements for document selection and browsing. (6 Refs)

Subfile: C

Descriptors: document handling; information retrieval; interactive systems; natural languages

Identifiers: document processing utilities; document utilization cycle; natural language processing technology; document list viewer; natural language processing; document clustering; retrieved documents; automatic text summarization function; document browser; customized summaries; document selection

Class Codes: C6130D (Document processing techniques); C6180N (Natural language processing);

C7250R (Information retrieval techniques); C6180 (User interfaces)

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21/5/14 (Item 1 from file: 23) [Links](#)

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Hierarchical menu bar system with dynamic graphics and text windows

Lane, Ronald S; Lane, Miriam Weiss

, USA

Publisher Url: <http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO2&Sect2=HITOFF&u=/netahtml/PTO/search-adv.htm&r=1&p=1&f=G&l=50&d=PTXT&S1=5704051.PN.&OS=pn/5704051&RS=PN/5704051>

Document Type: Patent

Record Type: Abstract

Language: English

File Segment: Metadex; Mechanical & Transportation Engineering Abstracts; ANTE: Abstracts in New Technologies and Engineering; Aerospace & High Technology

Abstract:

A data processor for managing a multilevel application wherein the data processor includes a display controller that creates a three-level menu window and a data window. The menu window includes at least two levels that each incorporate select commands associated with discrete subjects wherein menu commands are concurrently displayed on screen to provide historical access information. Menu commands are converted into display presentations where each level defines a greater degree of information detail on a given subject. The data display window for these presentations is further divided into windows for text and graphics. The foregoing arrangement has been found to be exceptionally effective at providing educational or tutorial information access in a efficient manner.

Descriptors: Menus; Texts; Dynamical systems; Microprocessors; Dynamics; Multilevel; Education; Positioning; Screens

Subj Catg: 71, General and Nonclassified; 61, Design Principles; 99, General